

Amendments to the Specification:

Please replace paragraph [0021] with the following amended paragraph:

[0021] FIG. 4 illustrates an embodiment of the present invention 10. A ~~coupler-12~~ conductor 11 is serially connected to a capacitor 12 and then a detector diode 14. The ~~coupler-12~~ conductor 11 is further connected to a terminating resistor 16. The ~~coupler-12~~ conductor 11, capacitor 12, detector diode 14, and terminating resistor 16 are integrated on a unitary semiconductor substrate 18. A conductor 19 is located above substrate 18 and aligned with conductor 11. Conductors 11 and 19 form a coupler for detecting power transmitted through conductor 19.

Please replace paragraph [0023] with the following amended paragraph:

[0023] FIG. 5 illustrates an alternate embodiment of the present invention 10'. A linear amplifier 20 serially connects between a ~~coupler-12~~ conductor 11 and a ~~detector-14~~ capacitor 12. Terminating resistors 16 are added as needed. All of the components are integrated on a unitary substrate 18.

Please replace paragraph [0025] with the following amended paragraph:

[0025] FIG. 6 illustrates an alternate embodiment of the present invention 10". A ~~coupler~~ capacitor 12 serially connects to a detector diode 14 at node A. A charge pump 22 connects to the node A. Terminating resistors 16 are added as needed. All of the components are integrated on a unitary substrate 18.

Please replace paragraph [0026] with the following amended paragraph:

[0026] In operation, the charge pump ~~[[20]]~~ 22 increases the voltage at node A. This compensates for the possibly lower coupling of an integrated coupler ~~[[12]]~~.